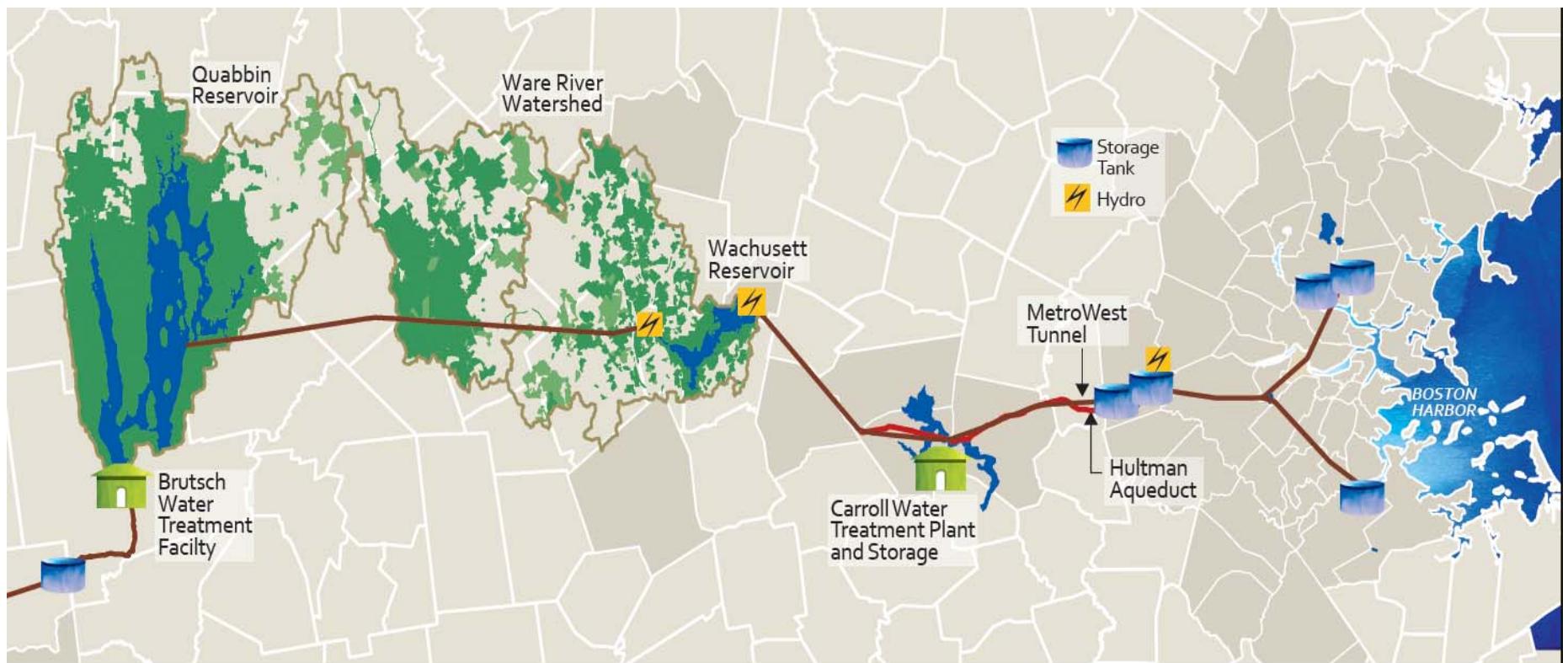


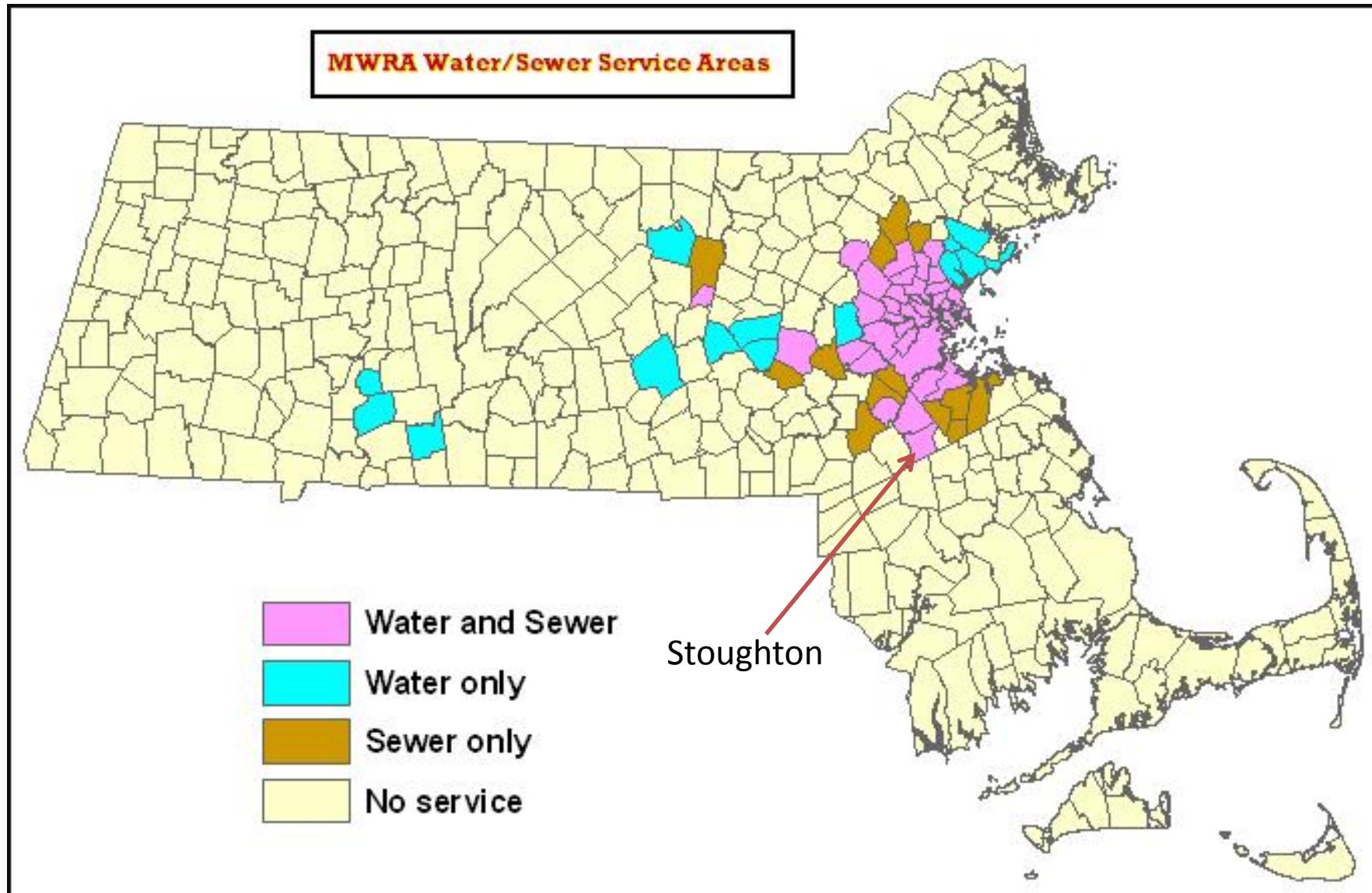
Where Does Stoughton's Water Supply Come From?

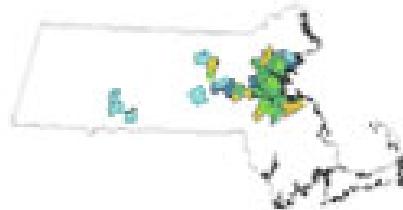
Phil McNulty; PE, Water & Sewer Superintendent

Greater Boston Surface Water Supply



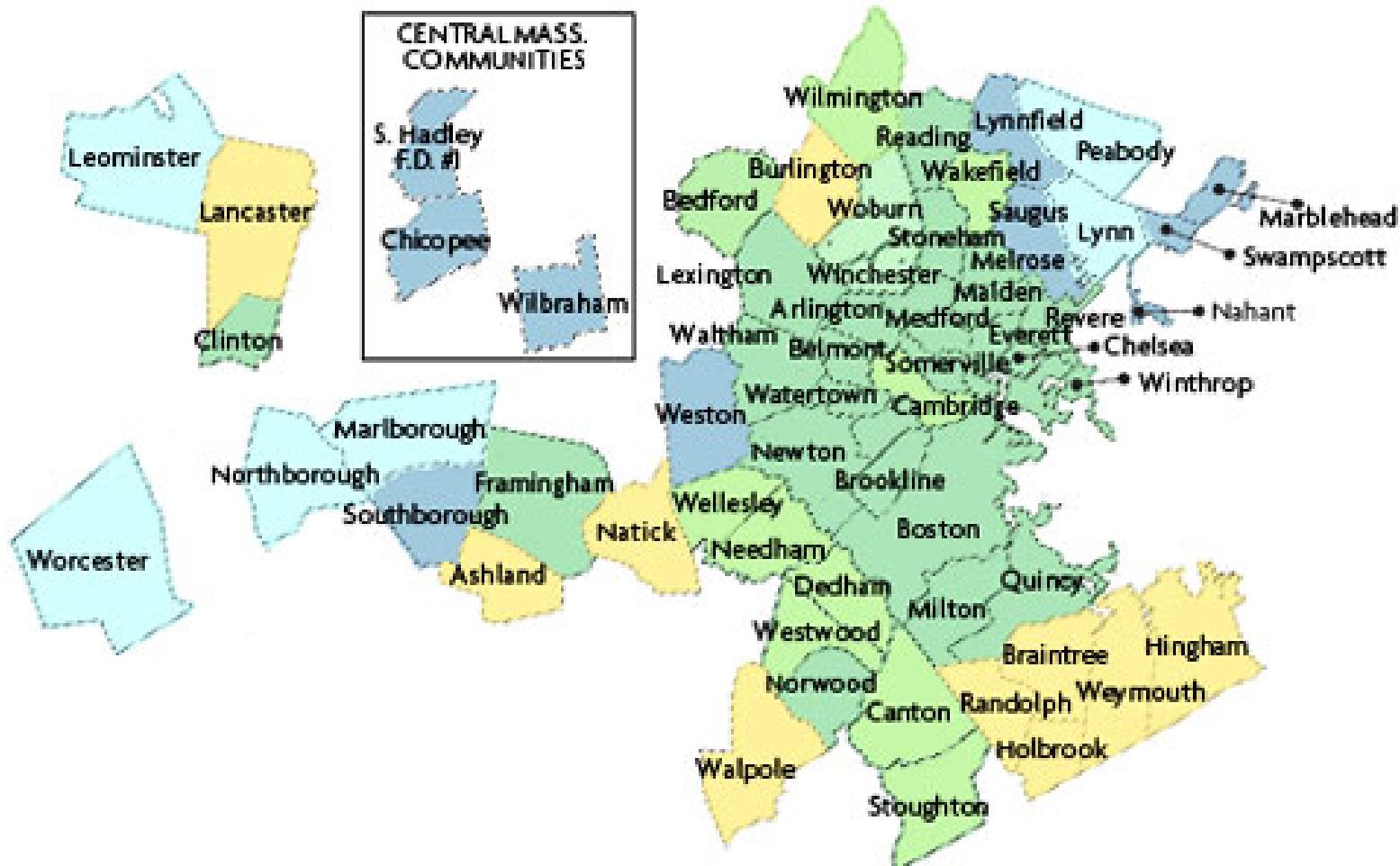
Greater Boston Surface Water Supply





MWRA SERVICE AREA

Water only	Partial/emergency water only
Sewer only	Full sewer, partial/emergency water only
Water and sewer	



Surface Water

- Surface water are the lakes, streams, rivers and ponds, which are also replenished by rain and snow.



Private Water Well

Some people have private wells on their property

These wells are built similarly to the Town wells, but a smaller version



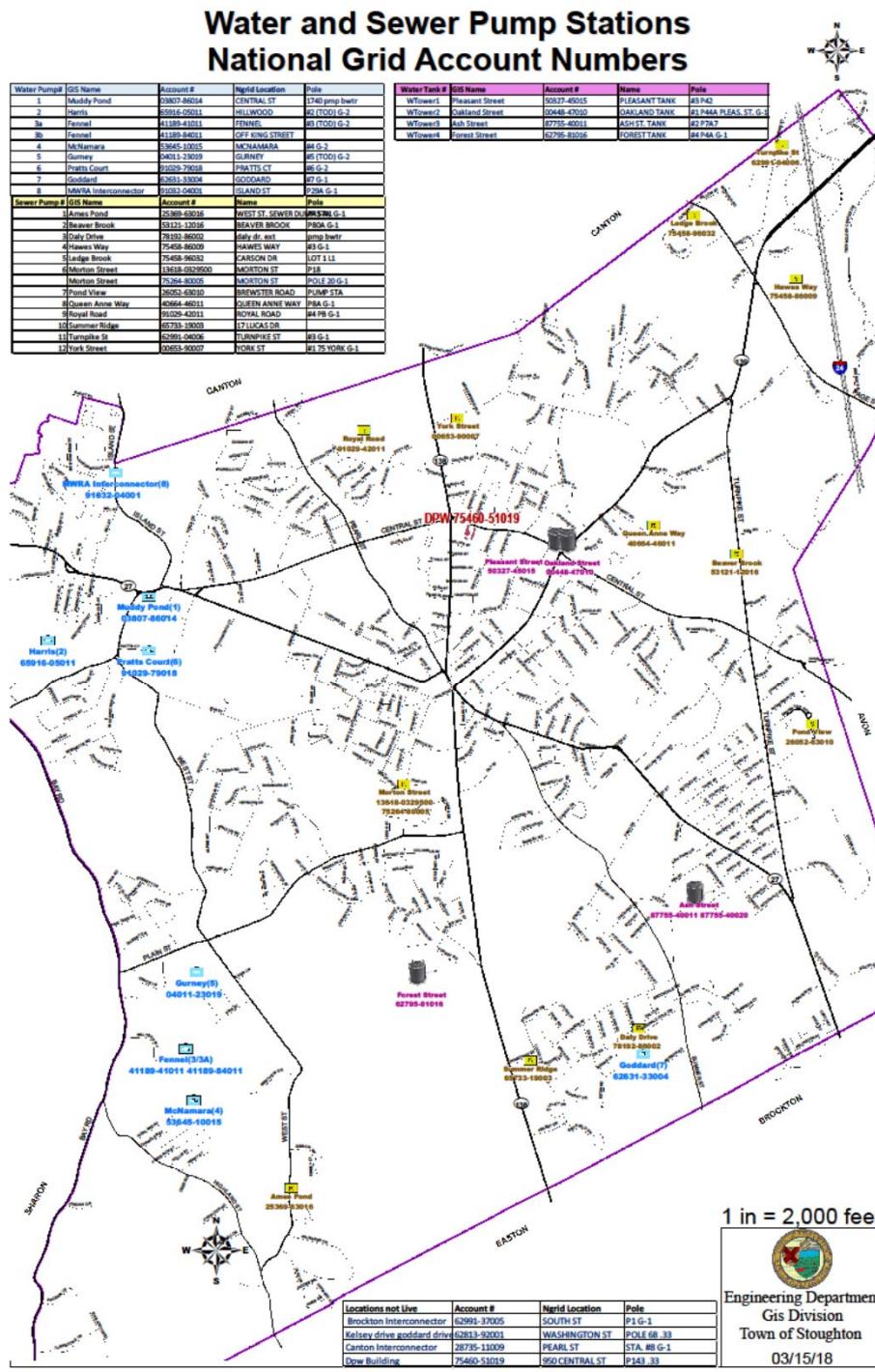
Stoughton's Water Supply

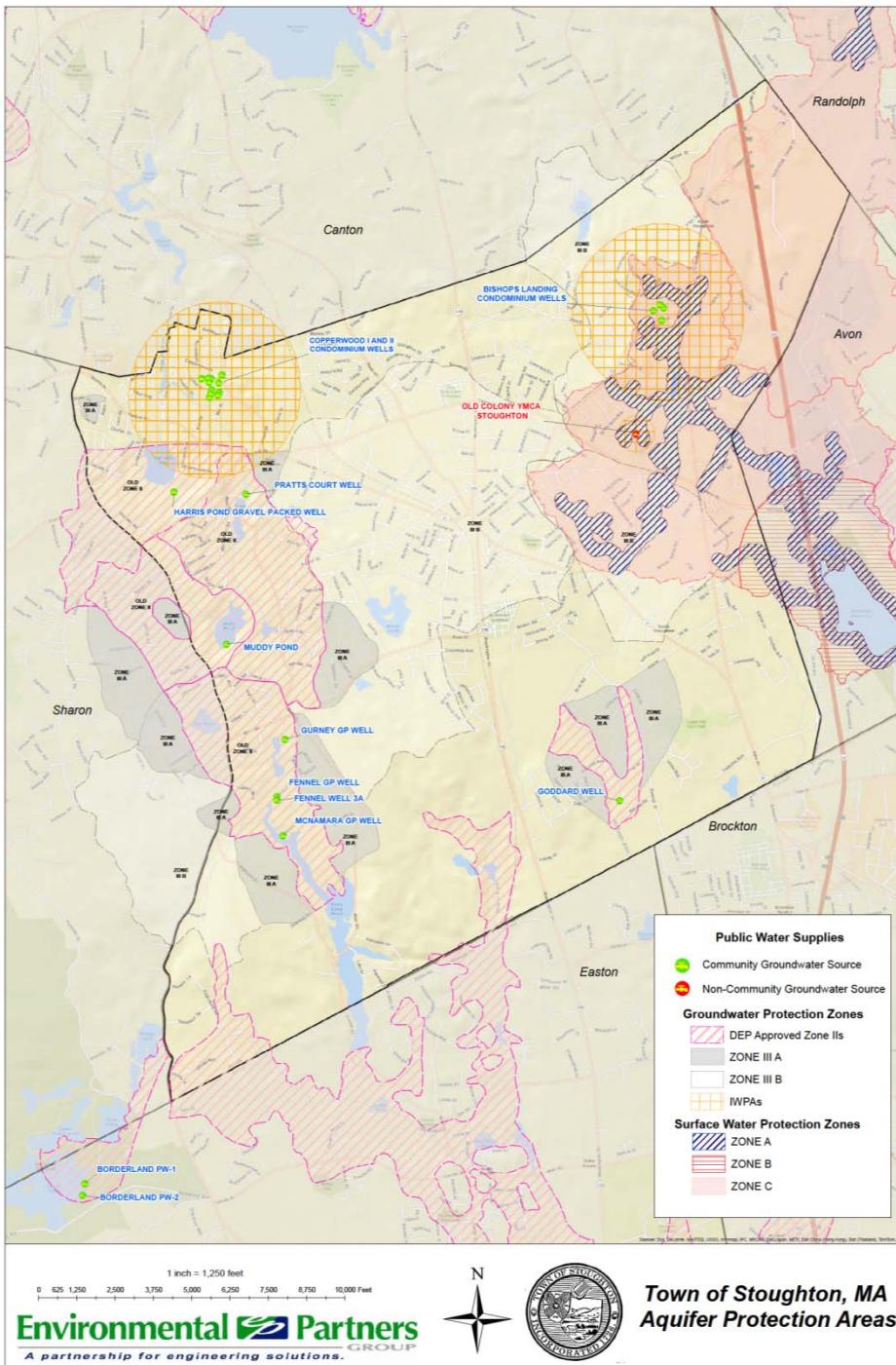
- Water from the groundwater is pumped from the Town Wells into the treatment plants.
- Stoughton has 8 wells in town that are used to supply water to the public
- We also have 4 water storage tanks
- And 2 of the wells have Water Treatment Filter Plants

Water and Sewer Pump Stations National Grid Account Numbers

Water Pumping	GIS Name	Account #	Legal/Physical Address	Water Pumping
1	Mudfly Pond	55907-46014	CENTRAL ST	1740 pump brtr
2	Harris	55914-05011	HILLWOOD	82 (TOD) G-2
3a	Fennell	41189-41011	FENNELL	65 (TOD) G-2
3b	Fennell	41189-41011	OFF KING STREET	
4	McTamarra	38454-10015	MCNAMARA	86 G-2
5	Shoreline	55914-05011	SHORELINE	85 (TOD) G-2
6	Pratts Court	50204-79018	PRATTS CT	65 G-2
7	Goddard	53631-33004	GODDARD	87 G-1
8	DNRA Interconnector	51031-04001	GRAND ST	126A G-1
Sewer Pumping	GIS Name	Account #	Name	
1	Armen Pond	55907-46001	ARMEN ST. CENTER DRAIN	100 G-1
2	Brayton Brook	55914-05001	DAVIER BROOK	100 G-1
3	Daly Ditch	55915-86000		100 pump brtr
4	Hawley Way	75458-86000	HAWLEY WAY	49 G-1
5	Lodge Brook	75458-96003	CARSON DR	107 L 11
6	Morton Street	13618-052900	MORTON ST	P18
7	Monroe Street	55907-46001	MONROE ST	100 G-1
8	Neckers Brook	55915-86000	NECKERS BROOK	100 G-1
9	Queen Anne Way	40604-46011	QUEEN ANNE WAY	PBA G-1
10	Royal Road	55912-42011	ROYAL ROAD	49 PBA G-1
11	Summer Ridge	65733-10001	17 LUCAS DR	
12	Tarponkey St	52991-04006	TARPINKEY ST	49 G-1

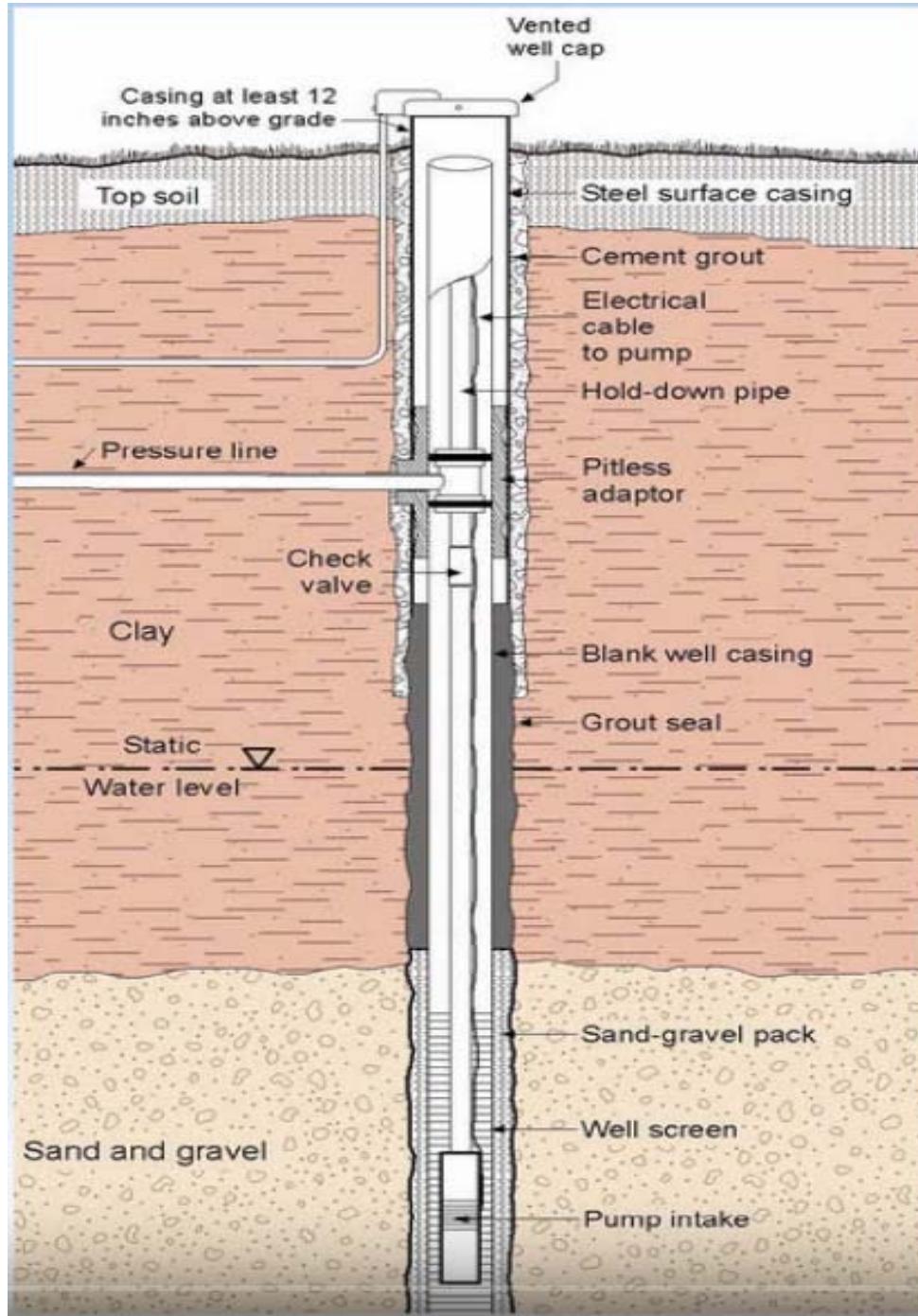
Water Tank #	GIS Name	Account #	Name	Pole
WTower1	Pleasant Street	50327-45015	PEASANT TANK	#3 P42
WTower2	Oakland Street	00448-47010	OAKLAND TANK	#1 P44A PLEAS. ST. G-
WTower3	Ash Street	87755-40013	ASH ST. TANK	#3 P7A7
WTower4	Front Street	87755-40015	FRONT ST. TANK	#4 P44A C-4





Wells

- The wells average 50' in depth and are constructed of a steel casing. The bottom 10' is screened.
- Each well pumps thousands of gallons of water per day. In total Stoughton uses about 2 million gallons per day.
- The water is then filtered at a treatment plant and chemicals are added for disinfection (chlorine) and pH adjustment to prevent corrosion in the pipes.



Gravel Well # 3 50' Deep

- **Top 40' have a 2' diameter steel casing**
- **The bottom 10' is screened from 40'-50'**

Pratts Court Water Treatment Plant



Treatment Process

- The water comes into the treatment plant as “raw” water and is then filtered through sand to remove iron and manganese then treated with chlorine and potassium hydroxide for disinfection and to adjust the pH.
- Once the water is ready it is then pumped out to the public by underground pipes.
- Water not used directly by houses and businesses overflow to the 4 storage tanks.

Filtration System



Plain St Water Treatment Plant



Filtration System



Chemical Feeds

- Disinfection (chlorine)
- Adjust pH (Corrosion control)



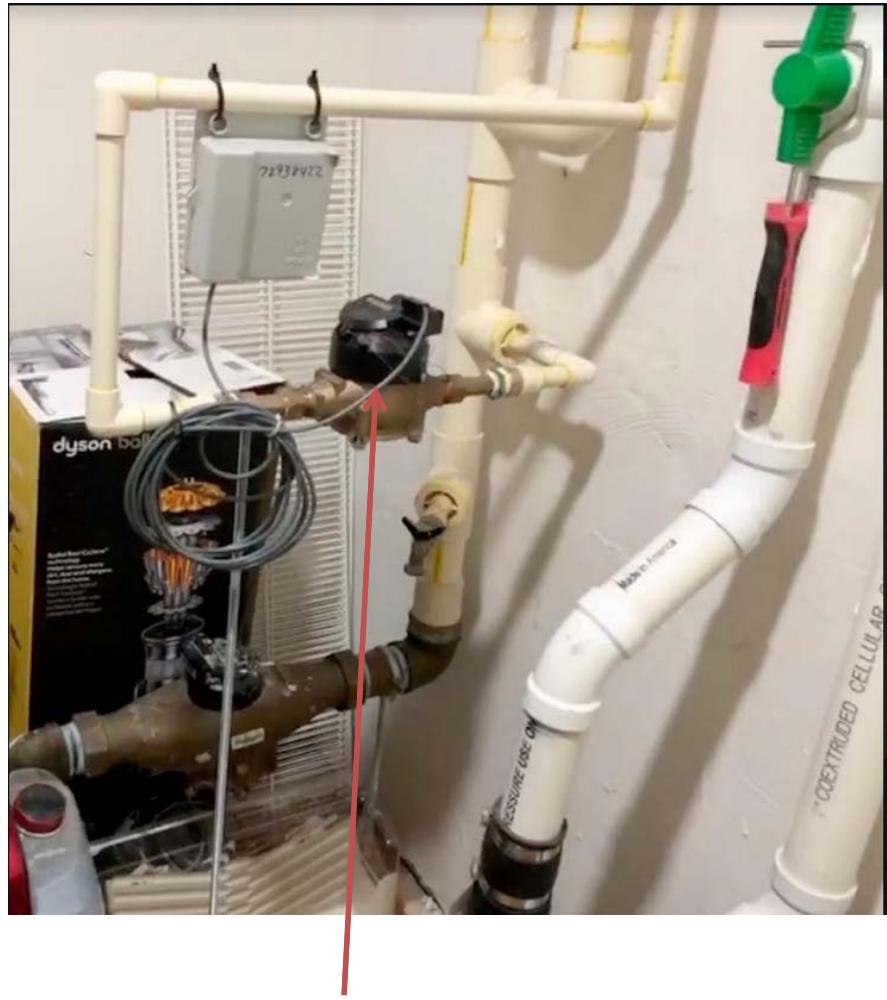


8" Water Main Pipe & Gate Valves

Water is pumped through pipes underground to everyone's house, restaurants, businesses , hydrants and every where else in town where water is used.

Water goes through a meter at each location to see how much is being used and billed.





Residential Water Meter

8" Water Main Pipe with 1" water service to a house where the water is metered for billing



Oakland St Tank



Tank Specification:

Height: 65'

Width: 52' Diameter

Storage Capacity:

1 million gallons

Pleasant St Tank



Tank Specification:

Height: 63.6'

Width: 76' Diameter

Storage Capacity:

2.0 Million Gallons

Ash St Tank



Tank Specification:

Height: 108'

Width: 47' Diameter

Storage Capacity:

1.4 million gallons

Forest St Tank



Tank Specification:

Height: 127'

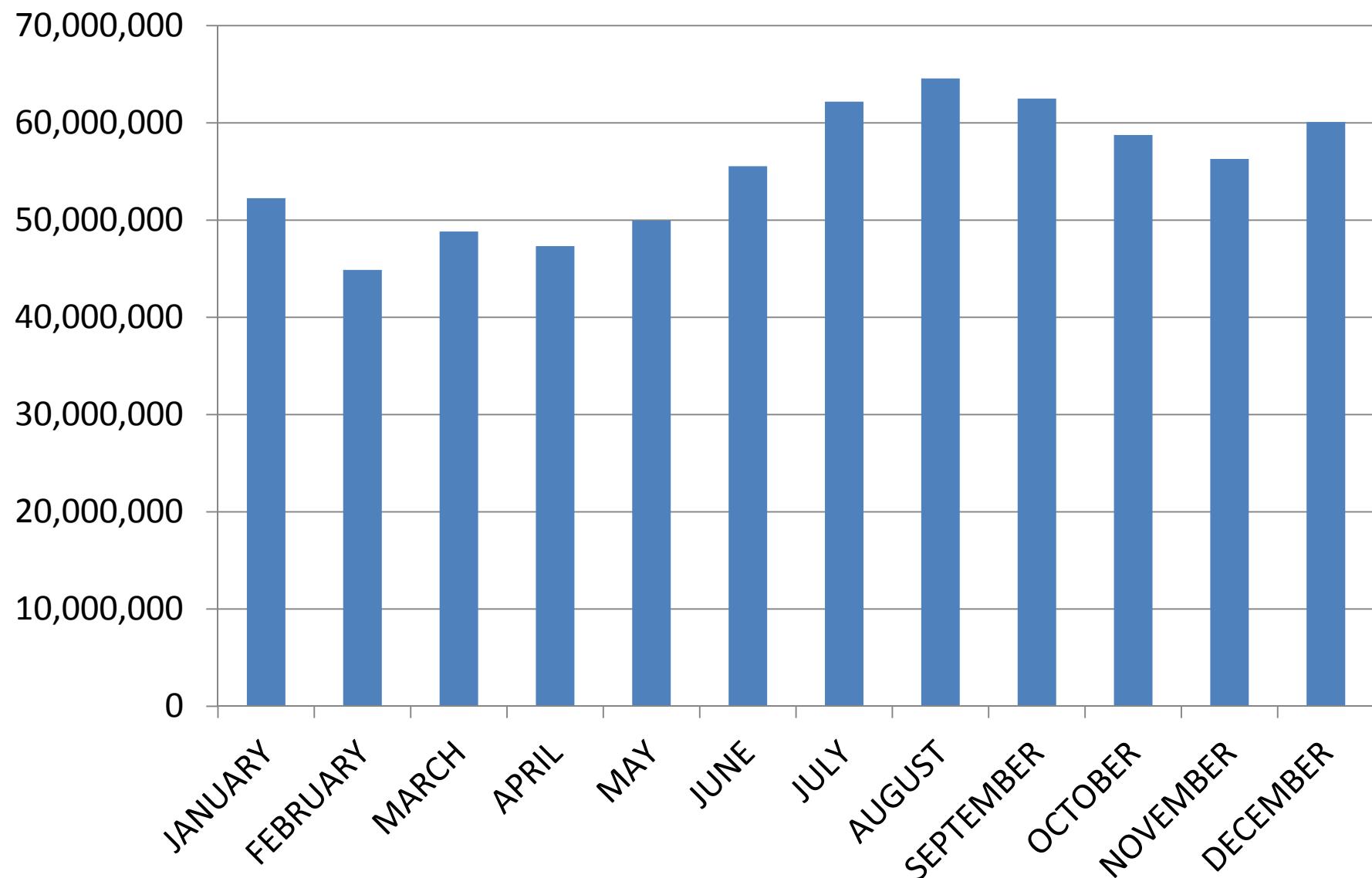
Width: 117' Diameter

Storage Capacity:

10.0 million gallons

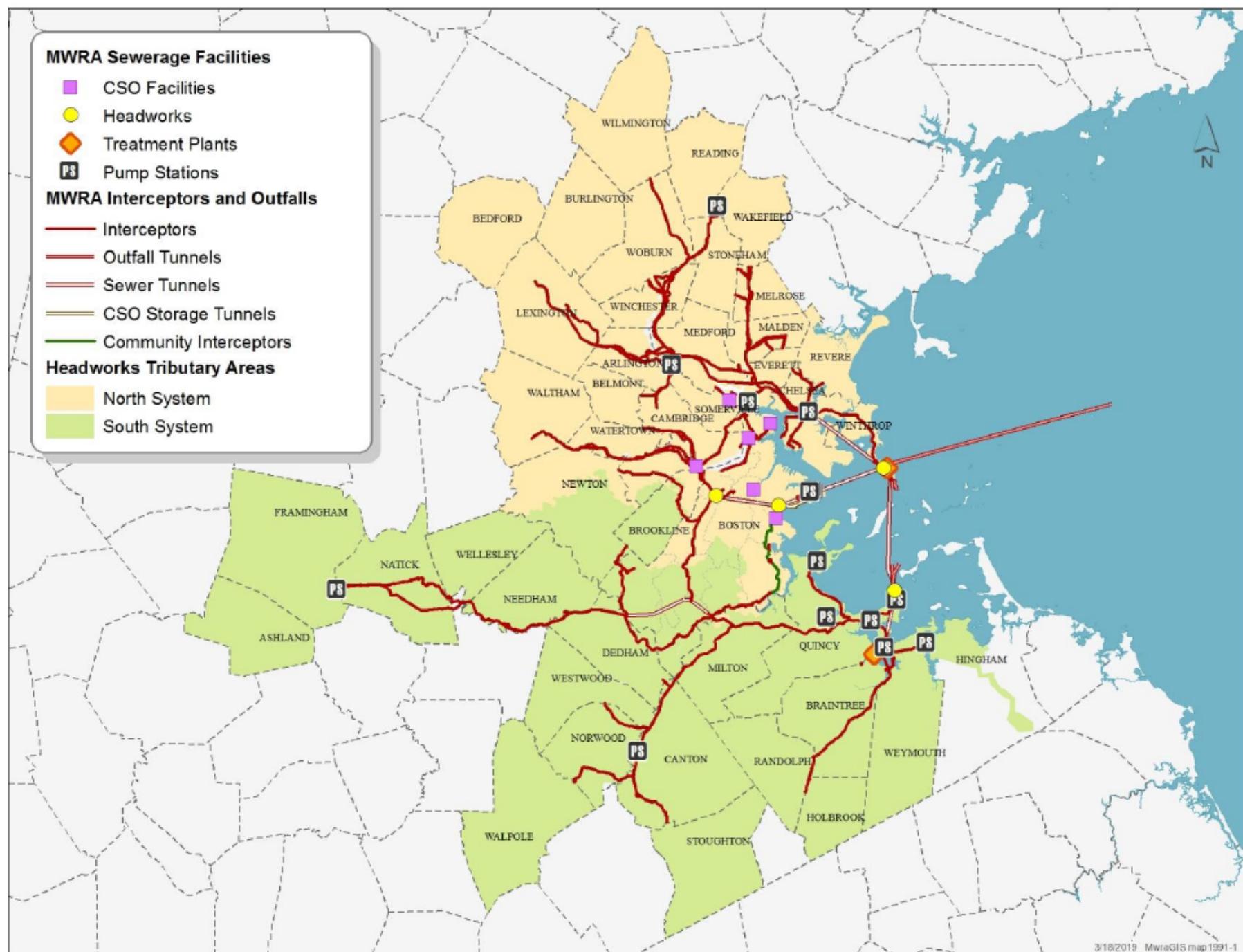
Stoughton water supply pumped for 2019 GALLONS

Total Pumped for the Year – 663,170,000



Stoughton's Waste Water

- Where does the water go....while washing your hands, taking a shower, washing your clothes or flushing the toilet..
- The water goes down the drain .. Right ?
- But then where..?



On Site Water Well & Septic Systems

- Some residents have their own water supply and onsite septic systems.
- Instead of getting water from the Town's supply they drill their well on their property.
- Instead of being pumped out to Deer Island, it is pumped to a septic tank located in your yard.

